

FILE 'LIFESCI' ENTERED AT 11:17:39 ON 09 JUN 2003
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205 NOCARDIOPSIS (A) SP.

== s porteased
L... 14 PORTEASED

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= . s protease?
L3      382720 PFOTEASE?

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s 11 and 13
 L4 27 L1 AND L3

Is homology or identity?
L: 1256891 HOMOLOG? OR IDENTITY?

== s 14 and 15
L4 AND 15

= d all

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LN# ANSWER 1 OF 1 MEDLINE
AN# 2001061976 MEDLINE
DN# 20498785 PubMed ID: 11042393
TI# Comparative characterization of two serine endopeptidases from
Nocardiosis sp. NCIM 5124.
AU# Dixit V S; Pant A
CO# Division of Biochemical Sciences, National Chemical Laboratory, 411008,
Pune, India.
SO# BIOCHIMICA ET BIOPHYSICA ACTA, (2000 Oct 18) 1523 (2-3) 261-8.
Journal code: 02179111. ISSN: 0006-3002.
EL# Netherlands
DI# Journal; Article; JOURNAL ARTICLE
LA# English
FI# Priority Journals
EM# 200012
ED# Entered STN: 20010622
Last Updated on STN: 20010622
Entered Medline: 20001228
AB# A protease-producing, crude oil degrading marine isolate was
identified as Nocardiosis sp. on the basis of the
morphology, cell wall composition, metabolic acid analysis and DNA base

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Protease I and Protease II, purified from *Staphylococcus aureus* (ATCC 12228) were prepared by the method of Kunitz (1955). The purified enzymes were stored in 0.1 M Tris-HCl buffer, pH 7.4, containing 0.1 M NaCl and 0.01 M EDTA. The concentration of the enzymes was determined by the method of Kunitz (1955). The purity of the enzymes was determined by SDS-PAGE and the results are shown in Figure 1. The molecular weight of the enzymes was determined by gel permeation chromatography (GPC) and the results are shown in Table 1. The specific activity of the enzymes was determined by the method of Kunitz (1955) and the results are shown in Table 1.

U/mg respectively on casein. However, **Protease I** was antigenically unrelated to **Protease II**. Both **proteases** were endopeptidases and required extended substrate binding for catalysis. Both **proteases** had collagenolytic and fibrinolytic activity but only **Protease I** had elastinolytic activity. The **proteases** were chymotrypsin-like with respect to their amino acid compositions and N-terminal sequences.

CT Check Tags: Comparative Study; Support, Non-U.S. Gov't

Actinomycetales: CL, classification

*Actinomycetales: EN, enzymology

Actinomycetales: IP, isolation & purification

Amino Acid Sequence

Chromatography, Gel

Chromatography, Ion Exchange

Kinetics

Molecular Sequence Data

Seawater: MI, microbiology

Sequence Alignment

Sequence Homology, Amino Acid

Serine Endopeptidases: CH, chemistry

Serine Endopeptidases: IP, isolation & purification

*Serine Endopeptidases: ME, metabolism

Substrate Specificity

Thermodynamics

CN EC 3.4.21 (Serine Endopeptidases)

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 05	PHARMAMarketLetter(PHAFMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAFID has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
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NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
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NEWS	14	Nov 25	More calculated properties added to REGISTRY
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NEWS	17	Dec 17	TEXTCENTER enhanced with additional content
NEWS	18	Dec 17	Axis Clinical Trials Insight now available on STN
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NEWS	21	Feb 24	METADEX enhancements
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NEWS	25	Feb 26	EXTFULL now contains images
NEWS	26	Mar 04	MAIL PACKAGE for monthly delivery of multiple STN results
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NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in
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right truncation

NEWS 42 Jun 05 Simultaneous left and right truncation added to CBNB
NEWS 43 Jun 05 PASCAL enhanced with additional data

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.02(ENG AND V6.02b(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 11:16:04 ON 09 JUN 2003

=> file medline embase biosis biotrechds scisearch hcaplus ntis lifescinocardiopsis
(a)sp.

'BIOTRECHDS' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):end

=> file medline embase biosis biotrechds scisearch hcaplus ntis lifesci

'BIOTRECHDS' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
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COST IN U.S. DOLLARS

MINOR FILE	TOTAL
ENTRY	SESSION
1.63	1.63

FULL ESTIMATED COST

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ENTERING AT 11:17:39

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